PATENT COOPERATION TRE

Rec'd PCT/PTO 16 FEB 2005 EN CHINGEN From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

- 6 SEP 2004

To: Prins, A. W. VEREENIGDE Nieuwe Parklaan 97 0-05-01 2587 BN Den Haag PAYS-BAS 31 AUG 2004 EMANTWOOMS

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

Date of mailing (day/month/year)

25.08.2004

Applicant's or agent's file reference P61262PC00

IMPORTANT NOTIFICATION

International application No. PCTNL 02/00552

International filing date (day/month/year) 16.08.2002

Priority date (day/month/year)

16.08.2002

Applicant

STICHTING ASTRON et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

European Patent Office

D-80298 Munich Tel. +49 89 2399 - 0 Tx; 523656 epmu d

Fax: +49 89 2399 - 4465

Authorized Officer

Weman, E

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P61262PC00			nt's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/NL 02/00552				International filing date (day/month/year) 16.08.2002		Priority date (day/month/year) 16.08.2002		
1		I Data	et Classification (IPC) or h	oth national classification a	and IPC			
1	183/02		III Classification (ii 0) of p					
	icant CHTII	NG A	STRON et al.					
1.	This Auth	interi ority	national preliminary exa and is transmitted to the	mination report has bee applicant according to	en prepa Article 3	red by this Inte 6.	ernational Preliminary Examining	
2.	2. This REPORT consists of a total of 6 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					have hority		
	These annexes consist of a total of sheets.							
3.	This	renó	d contains indications re	elating to the following it	tems:			
"	This report contains indications relating to the following item Basis of the opinion							
	il		Priority					
	111	<u>⊠</u>	•	oninion with regard to r	noveltv. i	nventive step	and industrial applicability	
	IV		Lack of unity of inven	·	,,		, , , , , , , , , , , , , , , , , , ,	
V A Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applications and explanations supporting such statement			nventive step or industrial applicat	oility;				
	VI		Certain documents ci	ted				
	VII		Certain defects in the	international application	ı			
	VIII		Certain observations	on the international app	lication			
Date	Date of submission of the demand			Date o	f completion of t	his report		
04.0	04.03.2004			25.08	.2004			
Nam prell	Name and mailing address of the international preliminary examining authority:				Author	ized Officer	. gaprains	Asheere G
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			Teale	•				
Fax: +49 89 2399 - 4465			Teleph	one No. +49 89	2399-8220	estilg . _{da.}		



INTERNATIONAL PRELIMINARY

International application No.

PCT/NL 02/00552

I.	Basis	of the	report
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EXAMINATION REPORT

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages					
	1-14	4	as originally filed				
	Cla	ims, Numbers					
	1-2	•	as originally filed				
	1-24	2	as originally filed				
	Dra	wings, Sheets					
	1-3		as originally filed				
With regard to the language, all the elements marked above were available or furnished to this Author language in which the international application was filed, unless otherwise indicated under this item.							
	The	These elements were available or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of pub	lication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).				
3.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inte	mational application in written form.				
		filed together with th	e international application in computer readable form.				
		furnished subsequer	ntly to this Authority in written form.				
	☐ furnished subsequently to this Authority in computer readable form.						
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.				
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have r	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				





International application No.

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5.		This report has been establish been considered to go beyond	ned as I the d	if (some of) i isclosure as	the amendments had not been made, since they have filed (Rule 70.2(c)).
		(Any replacement sheet conta report.)	ining s	such amendr	nents must be referred to under item 1 and annexed to this
6.	Add	ditional observations, if necessa	ary:		
111.	No	n-establishment of opinion w	ith reg	gard to nove	elty, inventive step and industrial applicability
1.	The	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- obvious), or to be industrially applicable have not been examined in respect of:			
		the entire international applica	ation,		
	X	claims Nos. 21,22			
		because:			
	Ø	the said international applicati does not require an internation	ion, or nal pre	the said clair diminary exa	ns Nos. 21,22 relate to the following subject matter which mination (specify):
		see separate sheet			
		the description, claims or draw that no meaningful opinion co	vings (uld be	<i>(indicate part</i> formed <i>(spe</i>	icular elements below) or said claims Nos. are so unclear cify):
		the claims, or said claims Nos could be formed.	s, are s	so inadequate	ely supported by the description that no meaningful opinion
		no international search report	has b	een establish	ed for the said claims Nos.
2.	or a	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:			
		the written form has not been	furnisl	hed or does I	not comply with the Standard.
		the computer readable form h	as not	been furnish	ed or does not comply with the Standard.
V.	Rea cita	asoned statement under Artic tions and explanations supp	cle 35(porting	(2) with rega g such state	rd to novelty, inventive step or industrial applicability;
1.	Sta	tement			
	Nov	velty (N)	Yes: No:	Claims Claims	1-19 20
	Inv	entive step (IS)	Yes:	Claims	1-19

Claims

Claims

Yes: Claims

No:

20

1-20

2. Citations and explanations

Industrial applicability (IA)

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/NL 02/00552

see separate sheet





INTERNATIONAL PRELIMINARY

International application No. PCT/NL 02/00552

EXAMINATION REPORT - SEPARATE SHEET

Re Item III

(Non-establishment of opinion with regard to novelty, inventive step and industrial applicability.)

Claim 21 sets out a "computer program product" and claim 22 a "data carrier" representing the computer program product of claim 21. Under the PCT International Preliminary Examination Guidelines (version in force from 9 October 1998), IV 2.4 (f) and Rule 67.1(vi) PCT, such claims need not be examined by the IPEA and the IPEA chooses not to carry out such preliminary examination of claims 21 and 22.

Re Item V

(i)

(Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement.)

- Reference is made to the following document: 1.
 - D1: US-B-6 239 7471 (KAMINSKI WALTER JOSEPH) 29 May 2001 (2001-05-29)
- D1 forms the closest prior art on file, disclosing (column 12, lines 8 to 27) a 2. method of calibrating phase errors (termed "geometric correction factors") in a sensor array comprising:
 - receiving an output signal of at least two sensor element signals in reaction to an input signal from a signal source (see figure 1, elements 12, 14 and 16), and
 - estimating a cross-correlation between the output signals of at least two of said sensor elements (column 3, lines 1 to 8).
- The subject-matter of claims 1 and 17 differs from this prior art in the features set 3. out in lines 9-20 and 25-5(page 18), respectively, i.e. the features relating to optimising, parameter estimation and the cross-correlation model.
 - Since these difference features are neither known nor derivable from any document on file and are not matters of usual design, the subject-matter of claims 1-19 complies with Article 33(2,3) PCT regarding novelty and inventive step.
- The reference in claim 20 to an array signal processing system being calibrated by 4.



INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/NL 02/00552

the claimed method is not seen as restricting the technical features of the array signal processing system, since such a system is indistinguishable from a system using the same calibration parameters, but derived by a different method.

Hence claim 20 is regarded as effectively setting out an "array signal processing system", thus lacking novelty, Article 33(2) PCT, in view of figure 1 of D1.

- As set out above, the IPEA chooses not to examine claims 21 and 22. 5.
- The subject-matter of claims 1-20 complies with Article 33(4) PCT regarding 6. industrial applicability.